

Product information

AccuTrim® Robot Series

DRS AccuTrim Robots Improve Trimming Performance and Reduce Programming Time

Today's demanding path-intensive trimming applications require a new approach to optimizing path accuracy, minimizing cycle time and reducing programming time.

Dynamic Robotic Solutions has addressed this challenge with the introduction of revolutionary AccuTrim robots. DRS takes factory delivered ABB robots and adds waterjet cutting specific parameters, hardware and software to create this DRS AccuTrim model with improved capabilities.



DRS AccuTrim 1600 robot

DRS AccuTrim® 1600 Robot

Extensive testing of the ABB IRB-1600/8.5/1.45 robot was completed with the cooperation of ABB Robotics in our Dynamic Robotic Solutions Ronneby, Sweden laboratory. This "motion tuning" effort led to creation of revised motion parameters for this robot. These new parameters, available exclusively on DRS AccuTrim robots, optimizes the robot's performance in trimming continuous paths and small features while improved the achievable cycle time.

DRS research reveals that AccuTrim robots reduce programming time up to 30 percent in manual teach mode and up to 70 percent in offline programming mode. Cycle time can be reduced by up to 20 percent while still maintaining satisfactory part quality.

AccuTrim Robot Benefits:

- Optimized performance for path accuracy while maintaining shortened cycle time
- Faster and higher quality small feature trimming
- Significant reduced teaching and touch-up time
- Improved ability to run CAD-to-Path generated programs with minimal touch-up
- AccuTrim robots can cut circles to a roundness of +/- 0,1 mm
- Cloning of robot programs from one work cell to another with minimal touch-ups



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Software provided with the AccuTrim® 1600 Robot

DRS WaterjetWare®

DRS, exclusive software used for Waterjet applications, featuring:

-WaterjetWare: Advanced Functions

Simplifies programming through a special set of instructions, shortening programming time and resulting in consistent programming techniques.

-WaterjetWare: Perfo Functions (optional)

For use when a perforated pattern needs to be cut.

A variety of perforated patterns can be easily created by inputting length and frequency requirements.

-WaterjetWare: Geometrix® (optional)

This patented software makes cutting small circles of 3 to 20 mm width high accuracy quickly and with tolerances of +/- 0,1mm.

-WaterjetWare: Position Control (optional)

A robot performance control used during production to maximize production quality.

-WaterjetWare: Quality Control (optional)

An orifice control used during production to maximize production quality.

DRS Machine Software/Parameters

System specific optimizing parameters including robot motion limits to prevent coil damage and payload data. Also includes features to facilitate quick recovery from faults, monitor cycle time, and to verify and update Tool Center Point positions.

DRS Collision Protection

DRS provided software to enhance communications in multiple robot systems and establishing Collision Area Zones that can be activated and deactivated preventing the robots from contacting each other during operation.

DRS Communication Functions (optional)

Facilitates use of external devices such as a PC or a printer by providing ability to write strings to a character-based file or serial port.

ABB Robot Software

● RobotWare-OS

The operating system of the ABB robot. RobotWare-OS

provides all the necessary features for fundamental robot programming and normal operating procedures.

● RobotWare-Options

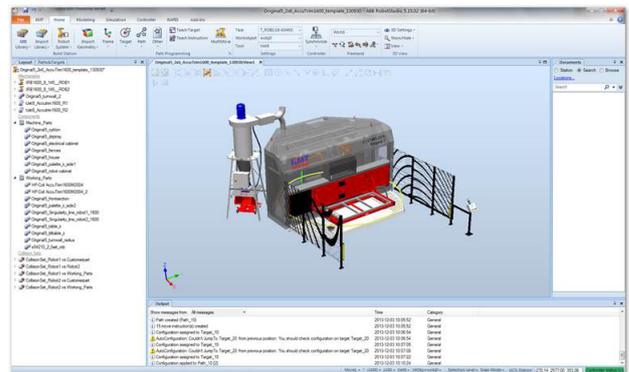
Software with additional functions for higher demands on programming, such as extended motion task in waterjet cutting. This ABB software option is running on the base of RobotWare-OS.

● RobotStudio - Basic functionality

With RobotStudio it's possible to view a virtual robot executing a program using the Virtual Controller technique. Program editing features are also included.

The software can also be used to directly connect to robots on the plant floor, providing an interface to check robot status and to check event logs.

Optionally RobotStudio-Premium together with the unique DRS PowerPac is a powerful software tool allowing full off-line programming and simulation capabilities.



RobotStudio provides offline programming and graphical simulation capabilities



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